

# TOMI | STERAMIST<sup>®</sup>

## HEALTHCARE

### ADVANTAGES OF STERAMIST<sup>®</sup> iHP<sup>™</sup> DISINFECTION OVER VHP<sup>®</sup>

#### ionized Hydrogen Peroxide (iHP<sup>™</sup>)



iHP<sup>™</sup> uses a low percentage hydrogen peroxide (7.8%) solution.

Intensive preparation is not required and if exposed, there are no harmful effects to the health of personnel, as long as eyes and mucus membranes are protected.

iHP<sup>™</sup> does not require PPM level monitoring for efficacy of disinfection.

iHP<sup>™</sup> is an aerosolized fog that spreads like a gas and does not need any extensive process prior to treatment.

iHP<sup>™</sup> functions at all normal ambient conditions.

iHP<sup>™</sup> is scalable and can decontaminate large spaces.

iHP<sup>™</sup> decontaminates on contact, with demonstrated 6-log efficacy or greater in seconds.

#### Vaporized Hydrogen Peroxide (VHP<sup>®</sup>)



VHP<sup>®</sup> requires a highly (30%-59%) concentrated hydrogen peroxide solution.

Concentrated hydrogen peroxide causes irreversible eye damage on exposure.

VHP<sup>®</sup> requires the space to reach a very high level of 800 PPM for efficacy of disinfection.

VHP<sup>®</sup> is very difficult to maintain as a vapor unless certain operating temperatures and conditions are met.

VHP<sup>®</sup> must be operated under “dry” conditions; it is very difficult to maintain in the “vapor” phase at relative humidity greater than 30% and the presence of condensing moisture renders VHP<sup>®</sup> ineffective upon surfaces.

These engineering requirements limit the utility of VHP<sup>®</sup> to enclosed environments as it is not suitable for large or open area decontamination.

VHP<sup>®</sup> requires a minimum of 30 minutes exposure under optimized conditions to decontaminate surfaces.

## Ionized Hydrogen Peroxide (iHP™)

iHP™ has proven suitable for treatment of HVAC systems as demonstrated in the DARPA grant.

iHP™ is a powerful radical and only requires seconds to decontaminate.

iHP™ is safe for use around all metals and hundreds of other materials including all materials used to fabricate laboratory and hospital products.

iHP™ does not damage walls or laboratory furniture.

iHP™ can be shipped by all air carriers around the world.

iHP™ can be stored on the shelf, no restrictions.

iHP™ BIT™ solution is EPA registered and can be easily disposed of.

## Vaporized Hydrogen Peroxide (VHP®)

VHP® is not suitable for treatment of HVAC systems because it corrodes the ducts and has inconsistent activity in the presence of metals.

VHP® is a strong, non-specific, oxidant that decomposes very slowly and is predicated upon it remaining active for long periods of time.

VHP® is not compatible with iron and other ferrous metals because of its reactivity and its long exposure time.

VHP® is known to emanate gas for up to 72 hours and has blistered painted walls and pitted stainless steel.

VHP® cannot be shipped by air.

VHP® must be stored in a special explosive cabinet, and modified VHP® has additional handling restrictions and toxic hazards associated with its use.

VHP® must be disposed of as hazardous material.



POWERFUL. EASY. EFFECTIVE.  
**DISINFECT WITH STERAMIST® TODAY!**

**TOMIMIST.COM**  
800.525.1698